

# world of rope

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CASAR SUPERPLAST 10 / SUPERPLAST 10 MIX

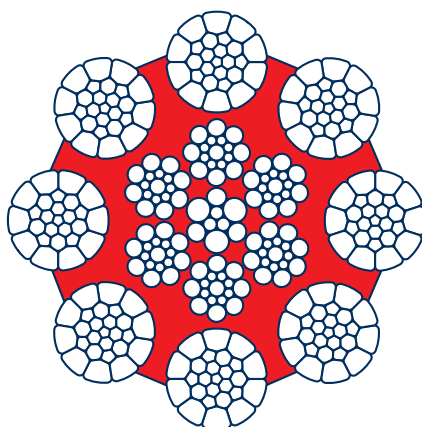
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CONEXPO 2014 IN LAS VEGAS



## CASAR Turboplast helps to clear the way

Amid the thunderous cheers of countless spectators, the oldest seaworthy three-master of Europe, the Belem, sailed as the first large ship into Port de la Lune, the harbor of Bordeaux, passing under the new lift bridge, the Pont Jacques Chaban-Delmas. The core of this 433 meters long lift bridge is the 117 meters mobile center piece which rises up 53 meters between the four 77 meters high pylons. This makes it the largest lifting bridge in Europe. *(Continued on page 2)*



Sectional view of CASAR Turboplast



**Blake Chandler**  
WireCo WorldGroup  
Senior Vice President Sales

For many economic sectors and particularly the companies of the construction and mining field, the year 2013 was a difficult one. The crisis of the Euro and a weak economy also slowed the activities in the field of specialty wire ropes. All the more reason to focus our attention to the future. The expectations of the industry are positive, and CASAR also plans for future growth.

Together with our global distribution partners we eagerly look forward to the challenges faced in the new year. I wish all of us success in business and interesting projects in the year 2014, which has just begun.

Kind regards,

(Continued from page 1)

After a construction time of slightly more than 3 years this bridge over the Garonne now connects the eastern and the western parts of Bordeaux and will greatly improve the traffic situation in the city center of Bordeaux. The building of the lift bridge ensures that the historic city center, which was awarded the status of UNESCO world heritage site in 2007, can now profit from the development of the cruise business. For example, in 2013 a total of 40 cruise liners docked in the harbor of Bordeaux.

The specialty wire rope CASAR Turboplast played an important role in the success of the three-master passing under the new lift bridge. Forty ropes of 69 meters in length each connect to the center bridge segment which weighs 2,600 tonnes, via deflection pulleys at the top of the four pylons using counterweights. These counterweight ropes, with a diameter of 76 mm, were produced especially for this project in the CASAR wire rope plant in Limbach where the ropes were measured under operating load and provided with end

connections at both sides, with the longitudinal tolerance being +/- 20 mm. An additionally applied jacket line facilitated the installation and ensured the torque-proof assembly of the ropes at the lift bridge. Ten of these ropes per pylon are respectively connected to a counterweight of approximately 1/4 total weight of the mobile bridge segment's.

## Proper rope selection for tower cranes

The conference regarding tower cranes, organized by the specialty magazine "International Cranes", was a complete success. The interesting contributions of the specialists from industry and commerce were very well received by the participants. The lecture by Dr. Oliver Fries, VP R&D, Innovation and Technology at WireCo, regarding the selection of the right rope and the optimization of its life span, resulted

in many questions and lively discussions. This is a positive signal for CASAR to discuss the use of specialty wire ropes in tower cranes in greater detail with users and manufacturers and to present the knowledge gained here to a wider public.

Surely we will have more opportunities to hear presentations of Dr. Oliver Fries. "World of rope" will keep you informed.



KHL Tower Crane Conference in Berlin, November 2013



## Organisational news

We are pleased to welcome Mr. Frank Gaeb to our global sales organization based in Germany. With 30 years of industry experience, Mr. Gaeb joined CASAR on November 1 as the Director of Mining for the Eastern Hemisphere. After finishing the Düsseldorf Business School, Mr. Gaeb went to work for the wire rope distributor CERTEX, formerly Rhein-Ruhr trading company. Since 1986 he held several management positions at the Bridon Group with a strong focus on rope applications in mining and oilfield.

As a regional director for Europe, Russia and the CIS countries, Mr. Gaeb led a strong sales organization and built close relationships with major key accounts in the specialized wire rope and mining industry. This vast experience and dedication to the region for more than 20 years provides an excellent starting position for his new role at CASAR.

**Mr. Gaeb states:** "I am excited to have the opportunity to join the market leader in wire ropes and glad to be part of a successful, growing company."

# CASAR Superplast 10 / Superplast 10 Mix – reliable partners in the production chain

Industrial and overhead cranes are used everywhere from small skilled-trade operations through complex large-scale enterprises. Often they are a fundamental part of the overall production chain and operate around the clock; in a worst-case scenario, stoppage of such a process crane means the stoppage of the entire production. Although they may differ with regard to load capacity or design, they nonetheless all share the same demand for reliability, efficiency, and safety.

The extraordinary design results in uniform wear characteristics over a wide load spectrum. This opens up an especially broad range of fields of application, with both very low and also very high design factors. Both cables have a high breaking strength and are extremely flexible. The construction of Superplast 10 Mix emphasizes the rope's bending fatigue behavior and for this reason it uses wires of various nominal tensile strengths resulting in a slight reduction in breaking strength.

It attained the absolute highest number of bending cycles ever attained by a full steel rope at CASAR. Especially in the low-load range, both ropes are able to satisfy.

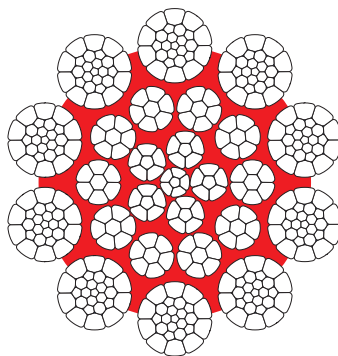
Not only under laboratory conditions but also during initial field tests on an industrial crane that was supposed to move lead coils, Superplast 10 was able to confirm the good test results and outperform the previously used ropes.



Since every crane is only as good as its individual components, crane manufacturers convey these requirements to their suppliers as well. For us as a rope manufacturer, this means providing the crane manufacturer with a custom-made product that best suits its crane and thus the customer's requirements. When we are talking about the industrial and process crane sector, the demand for a flexible hoisting rope is especially important. This is the reason why we developed CASAR Superplast 10 and CASAR Superplast 10 Mix.

Both constructions consist of ten outer strands and a plastic-coated steel core and make use of parallel constructions — that is, the lay length of all wires and strands are the same and the linear points of contact ensure an optimal load distribution in the rope.

In the course of mandatory in-house testing, this method has already proven to be enormously effective, such that the already very good test results of Superplast 10 could be surpassed once more with the Mix construction.



Sectional view of CASAR Superplast 10 / 10 MIX

## Do you have any questions?

Just contact one of our product specialists.

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# ConExpo 2014 Las Vegas waits for you!

Following the extremely successful Bauma München last year, CASAR and WireCo WorldGroup plan to exhibit at the very important ConExpo 2014 in Las Vegas. This important tradeshow for the construction and crane industry will have over 2,400 exhibitors from around the world and organizers expect over 130,000 visitors this year. The crane sector traditionally forms the primary focus of this exhibition and anyone interested in cranes eagerly awaits this show to see new products and service from the industry.

Of course, CASAR will display along with our fellow WireCo brands with a dynamic booth program. You can find us in booth 50040 in the central hall on the front of the mezzanine.

We want to invite you to visit us at our stand — our product specialists will be on site to greet you!

## EXHIBITOR AT



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### PLANNED TOPICS:

- DOUBLEFIT PRODUCT AND MARKET INFORMATION
- CONEXPO 2014 REPORT
- NEWS FROM THE LAB

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